

UNITED STATES DEPARTMENT OF AGRICULTURE
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO. 14-R-0019	CUSTOMER NO. 107	FORM APPROVED OMB NO. 0579-0036
2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code) HARVARD MEDICAL SCHOOL CTR ANM RES/COMP MED 665 HUNTINGTON AV BOSTON, MA 02115 (617) 432-1285		

ANNUAL REPORT OF RESEARCH FACILITY (TYPE OR PRINT)

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

FACILITY LOCATIONS (sites)

See Attached Listing

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REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY (Attach additional sheets if necessary or use APHIS FORM 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain- relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs			39		39
5. Cats	8		65	4	69
6. Guinea Pigs			28		28
7. Hamsters		7	463		470
8. Rabbits	3		81		81
9. Non-Human Primates	1766		394		394
10. Sheep					
11. Pigs			128		128
12. Other Farm Animals					
Goat			1		1
13. Other Animals					
Ferret	2		40		40

ASSURANCE STATEMENTS

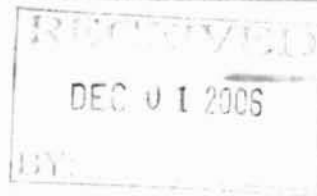
- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternative to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL (Chief Executive Officer or Legally Responsible Institutional official) I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL (b)(6), (b)(7)(c)	NAME & TITLE OF C.E.O. OR INSTITUTIONAL OFFICIAL (Type or Print)	DATE SIGNED 11/29/06
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PART 1 - HEADQUARTERS



Column E Explanation

1. Registration Number: 14-R-0019
2. Four animals used in this study
3. Cats used in the study
4. Explain the procedure producing pain and/or distress

Major surgery

Procedure #A: Laparotomy/fetal manipulations with or without uterotomy

Procedure #B: Minipump implantation experiments

Procedure #C: Craniotomy

Procedure #D: [REDACTED]

Procedure #E: [REDACTED]

Procedure #F: [REDACTED]

Minor surgery

Procedure #G: Enucleation experiments

Procedure #H: Surgical strabismus

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see item 6 below).

This protocol and the investigator's research program is directed at understanding how brain functioning in the fetus is necessary for proper brain wiring. They have discovered that [REDACTED]

There are major concerns for this protocol with the use of [REDACTED]

[REDACTED] The long term effects of narcotics and other analgesics on human fetal brain development remain unknown. The Physicians' Desk Reference (1999) states there are no adequate studies available on the appropriateness of narcotics and other analgesics for pain alleviation under these circumstances.

The Harvard Medical Area IACUC has approved the [REDACTED]

[REDACTED] for this protocol. During the post-procedure period every experimental animal shall be carefully monitored for any unexpected behavior, discomfort, and malaise. Each animal shall be assessed for normal feeding, elimination, grooming, and activity level appropriate for its age. In cases where postoperative pain can be alleviated without compromising the experiment, such as after a [REDACTED], buprenorphine shall be administered subcutaneously at a dose of 0.005 to 0.01 mg/kg every 6-12 hours. Should any animal be assessed to be in extreme pain they shall be euthanized. None of this principal investigator's routine procedures have produced this kind of discomfort to date.

Exception to Standards

Registration Number: 14-R-0019

We request that our previously filed "exception to standards" be maintained for up to fifty-five (55) of our Non-Human Primates to receive water on a daily schedule that is less than the minimum requirement under the regulations in section 3.83. This section states "Potable water must be provided in sufficient quantity to every nonhuman primates, it must be offered to them as often as necessary to ensure their health and well-being, but no less than twice daily for at least 1 hour each time, unless otherwise required by the attending veterinarian or as required by the research proposal approved by the Committee at the research facilities."

As four of our HMS investigators are offering juice rewards to NHPs for behavioral studies with awake macaques at less than the above minimum for water, we have an exception to section 3.83 as described and institutionally approved by the Harvard Medical School IACUC. We ask that this exception to 55 Non-Human Primates be so noted in our 2006 Annual Report and maintained through 2007. During the 2006 USDA reporting period, only 30 macaques were actually water restricted.

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12. &/OR 13. Other (List by Species)					
9. Non-human Primates	1766		394		394
ASSURANCE STATEMENTS: Filing for continued exception to standards with regulation 3.83 for fifty-five macaques to receive juice rewards for behavioral studies at less than the above minimum for water. Exception institutionally approved by the Harvard Medical Area Standing Committee on Animals (IACUC).					

APHIS Form 7023 Site List

The following sites have been reported by the facility

Registration Number: 14-R-0019
Customer Number: 107
Facility: HARVARD MEDICAL SCHOOL
CTR ANM RES/COMP MED 665 HUNTINGTON AV
BOSTON, MA 02115
(617) 432-1289

HARVARD SCHOOL OF MEDICINE
665 HUNTINGTON AVENUE
BOSTON, MA 02115

SiteNo: 1 Name/Dept:

Address:

(b)(2)High, (b)(7)f

(1) Building:

Floor/Room:

Contact Person:

Phone Number

(b)(6), (b)(7)c

(2) Building:

(b)(2)High, (b)(7)f

Floor/Room:

Contact Person:

Phone Number

(b)(6), (b)(7)c

(3) Building:

(b)(2)High, (b)(7)f

Floor/Room:

Contact Person:

Phone Number

(b)(6), (b)(7)c

(4) Building:

(b)(2)High, (b)(7)f

Floor/Room:

Contact Person:

Phone Number

(b)(6), (b)(7)c

SiteNo: 17 Name/Dept:

Address:

Building:

Floor/Room:

Contact Person:

Phone Number:

(b)(2)High, (b)(7)f

(b)(6), (b)(7)c

SiteNo: 18 Name/Dept:

USDA Registration No:

Address:

Building:

Floor/Room:

Contact Person:

Phone Number:

(b)(2)High, (b)(7)f

(b)(6), (b)(7)c

SiteNo: 21 Name/Dept:

USDA Registration No:

Address:

Building:

Floor/Room:

Contact Person:

Phone Number:

(b)(2)High, (b)(7)f

(b)(6), (b)(7)c